

THE
IBIS

QL
671
I12

JOURNAL OF THE BRITISH
ORNITHOLOGISTS' UNION



VOLUME 109, 1967

VOLUME 109

DATES OF ISSUE

No. 1. Issued 1 January 1967.	No. 3. Issued 1 July 1967.
No. 2. Issued 1 April 1967.	No. 4. Issued 1 October 1967.

CONTENTS OF VOL. 109 1967

Contents	ii
B.O.U. Officers and Medallists	vii

No. 1

	Page
W. R. P. BOURNE. Subfossil petrel bones from the Chatham Islands	1
R. F. JOHNSTON. Seasonal variation in the food of the Purple Martin <i>Progne subis</i> in Kansas	8
D. W. SNOW & B. K. SNOW. The breeding cycle of the Swallow-tailed Gull <i>Creagrurus furcatus</i>	14
M. P. KAHL. Observations on the behaviour of the Hamerkop <i>Scopus umbretta</i> in Uganda	25
I. NEWTON. The adaptive radiation and feeding ecology of some British finches	33
R. L. PENNEY & J. T. EMLÉN. Further experiments on distance navigation in the Adelie Penguin <i>Pygoscelis adeliae</i>	99
Short Communications	
I. NEWTON & I. C. WILLIAMS. A trematode infection of Bullfinches <i>Pyrrhula pyrrhula</i>	110
F. G. H. ALLEN & P. G. C. BRUDENELL-BRUCE. The White-rumped Swift <i>Apus affinis</i> in southern Spain	113
J. H. OOSTHUIZEN & M. B. MARKUS. The haematozoa of South African birds. I: Blood and other parasites of two species of game birds	115
G. NIETHAMMER. On the breeding biology of <i>Montifringilla theresae</i>	117
C. H. FRY. Lipid levels in an intra-tropical migrant	118
A. KEVE. The juvenile plumage of the Jay <i>Garrulus glandarius</i>	120
R. B. CLAPP and F. C. SIBLEY. New records of birds from the Phoenix and Line Islands	122
Correspondence	
The scientific use of B.B.C. wildlife sound recordings (J. F. BURTON)	126
Recent Ornithological Publications	127
British Ornithologists' Union	138
Current Notes and Notices	140

No. 2

W. R. P. BOURNE. Long-distance vagrancy in the petrels	141
R. H. LOWE-McCONNELL. Biology of the immigrant Cattle Egret <i>Ardeola ibis</i> in Guyana, South America	168
M. P. HARRIS. The biology of Oystercatchers <i>Haematopus ostralegus</i> on Skokholm Island, S. Wales	180
J. B. NELSON. The breeding behaviour of the White Booby <i>Sula dactylatra</i>	194
R. E. MOREAU. Water-birds over the Sahara	232
G. S. COWLES. The palate of the Red-necked Nightjar <i>Caprimulgus ruficollis</i> with a description of a new feature	260
D. J. JEFFERIES. The delay in ovulation produced by pp'-DDT and its possible significance in the field	266
Short Communications	
J. R. M. TENNENT. Spring migration of birds of prey near Suez	273
L. H. BROWN. The occurrence of the Chough <i>Pyrrhocorax pyrrhocorax</i> in the Mendebo Araenna mountains of the Bale Province, Ethiopia	275
C. S. JOHNSTON, D. H. CAMPBELL & M. R. ROLWEGAN. Summer observations on Lanzarote, an eastern island in the Canary Archipelago	276
B. STONEHOUSE. Expanding population of <i>Pygoscelis antarctica</i> on South Georgia	277
D. F. OWEN. The interpretation of polymorphism in the African Bush-shrikes	278
Obituary	
ALDEN H. MILLER	280
Recent Ornithological Publications	281
Current Notes and Notices	296

No. 3

M. A. OGILVIE & R. J. F. TAYLOR. Summer records from West-Spitsbergen, 1964	299
R. G. B. BROWN. Species isolation between the Herring Gull <i>Larus argentatus</i> and Lesser Black-backed Gull <i>L. fuscus</i>	310
P. A. CLANCEY. Taxonomy of the Southern African <i>Zosterops</i>	318
FRED C. SIBLEY & ROGER B. CLAPP. Distribution and dispersal of Central Pacific Lesser Frigatebirds <i>Fregata ariel</i>	328
B. LOFTS, R. K. MURTON & N. J. WESTWOOD. Photoresponses of the Woodpigeon <i>Columba palumbus</i> in relation to the breeding season	338
B. LOFTS, R. K. MURTON & N. J. WESTWOOD. Experimental demonstration of a post-nuptial refractory period in the Turtle Dove <i>Streptopelia turtur</i>	352
J. R. COLLMAN & J. P. CROXALL. Spring migration at the Bosphorus	359
HARVEY I. FISHER. Body weights in Laysan Albatrosses <i>Diomedea immutabilis</i>	373

	Page
FRANK B. GILL. Birds of Rodriguez Island (Indian Ocean)	383
MILTON W. WELLER. Notes on some marsh birds of Cape San Antonio, Argentina	391
M. NORTON-GRIFFITHS. Some ecological aspects of the feeding behaviour of the Oystercatcher <i>Haematopus ostralegus</i> on the Edible Mussel <i>Mytilus edulis</i>	412
A. D. FORBES-WATSON. Observations at a nest of the Cuckoo-Roller <i>Leptosomus discolor</i>	425
Short Communications	
EMIL K. URBAN & LAWRENCE H. WALKINSHAW. The Sudan Crowned Crane in Ethiopia	431
LEWIS W. ORING. Egg laying of a Golden Plover <i>Pluvialis apricaria</i>	434
P. M. DRIVER. Notes on the clicking of avian egg-young, with comments on its mechanism and function	434
R. S. BAILEY. Migrant waders in the Indian Ocean	437
LARS BROBERG. A Long-toed Stint <i>Calidris subminuta</i> in Ethiopia	440
I. NEWTON. Attacks on fruit buds by Redpolls <i>Carduelis flammea</i>	440
A. S. CHEKE. Further Notes on land birds over the Mediterranean and Red Seas	442
Correspondence	
P. L. BRITTON. Migration across the Mediterranean observed by radar	445
R. E. MOREAU. Dust-bathing in Ploceidae?	445
E. O. HÖHN. The relevance of J. Christian's Theory of a density-dependent endocrine population regulating mechanism to the problem of population regulation in birds	445
Obituary	
PHILIP HENRY MANSON-BAHR, Kt., C.M.G., D.S.O., M.D., F.R.C.P.	447
Recent Ornithological Publications	449
British Ornithologists' Union	469
Current Notes and Notices	487

No. 4

R. A. D. CAMERON, L. CORNWALLIS, M. J. L. PERCIVAL & A. R. E. SINCLAIR. The migration of raptors and storks through the near east in autumn	489
R. G. B. BROWN. Breeding success and population growth in a colony of Herring and Lesser Black-backed Gulls <i>Larus argentatus</i> and <i>L. fuscus</i>	502
GORDON CLARKE. Bird notes from Aden Colony	516
JEFFERY H. R. BOSWALL & MYLES E. W. NORTH. A discography of bird sound from the Ethiopian zoogeographical region	521
ERIC L. MILLS. Bird records from southwestern Ecuador	534
C. J. O. HARRISON. Sideways-throwing and sideways-building in birds	539
L. GURR. Interbreeding of <i>Larus novaehollandiae scopulinus</i> and <i>Larus bulleri</i> in the wild in New Zealand	552

	Page
G. L. MACLEAN. The breeding biology and behaviour of the Double-banded Courser <i>Rhinoptilus africanus</i> (Temminck)	556
D. L. SERVENTY, C. A. NICHOLLS & DONALD S. FARNER. Pneumatization of the cranium of the Zebra Finch <i>Taeniopygia castanotis</i>	570
ALEXANDER F. SKUTCH. Adaptive limitation of the reproductive rate of birds	579
B. STONEHOUSE. Feeding behaviour and diving rhythm of some New Zealand Shags, Phalacrocoracidae	600
P. L. BRITTON. Weights of the Carmine Bee-eater <i>Merops nubicoides</i>	606
Obituaries	
LT.-COL. FREDERICK MARSHMAN BAILEY, C.I.E.	615
COLONEL RICHARD MEINERTZHAGEN, C.B.E., D.S.O.	617
Union Medallists	621
Correspondence	622
Recent Ornithological Publications	624
Current Notes and Notices	648

LIST OF PLATES IN VOL. 109

Plate		Facing page
1.	Trematodes <i>Urotocus rossittensis</i> in the bursa Fabricii of a Bullfinch.	112
2.	White-rumped Swift <i>Apus affinis</i> leaving nest, Sierra de la Plata, Southern Spain, 1966.	113
3.	Two phases of the yes/no headshaking display in the White Booby <i>Sula dactylatra</i>	220
		Facing Plate
4.	(a) Mutual jabbing in a pair of White Boobies <i>Sula dactylatra</i>	5
	(b) Mutual jabbing in the White Booby <i>Sula dactylatra</i>	5
	(c) Mutual jabbing with calling in the White Booby <i>Sula dactylatra</i>	5
5.	(a) "Alert posture" that often precedes pair interaction in the White Booby <i>Sula dactylatra</i>	4
	(b) Low intensity bill-up-face-away in the White Booby <i>Sula dactylatra</i>	4
	(c) "Parallel standing" in the White Booby <i>Sula dactylatra</i>	4
6.	(a) Pair interaction of White Boobies <i>Sula dactylatra</i> at the nest.	7
	(b) Sky-pointing or advertizing display in male White Booby <i>Sula dactylatra</i>	7
	(c) Symbolic nest building in the White Booby <i>Sula dactylatra</i>	7
7.	(a) Pelican posture in the White Booby <i>Sula dactylatra</i>	6
	(b) Pre-take-off position in the White Booby <i>Sula dactylatra</i>	6
	(c) Nest-mate murder in the White Booby <i>Sula dactylatra</i>	6
		Facing page
8.	Begging (a) and feeding (b) of the young White Booby <i>Sula dactylatra</i>	221
9.	(a) Section of fully regressed testis of <i>Quelea quelea</i> during refractory phase showing dense mass of intratubular lipids.	350
	(b) Section of fully regressed testis of Woodpigeon <i>Columba palumbus</i> in late October, at a stage exactly comparable with (a) above.	350

Plate		Facing page
10.	Testis of <i>Streptopelia turtur</i> .	
	(a) Testis of bird killed 4 August.	351
	(b) Testis of bird on 8-hour photoperiod and killed 20 October.	351
	(c) Testis of photo-stimulated bird pre-treated with a course of 8-hour photoperiods.	351
	(d) Testis of bird maintained on a 17-hour photoperiod since the start of the experiment.	351
11.	Pair of Southern Screamers <i>Chauna torquata</i> feeding on floating Water Velvet <i>Azolla filiculoides</i>	410
12.	(a) Damage done to the ventral margins of mussel shells by Oystercatchers and cracking machine.	411
	(b) Large mussel stabbed by an Oystercatcher photographed from the posterior-dorsal aspect.	411
	(c) The same mussel photographed from the ventral aspect.	411
13.	Interbreeding of <i>Larus novaehollandiae scopulinus</i> and <i>Larus bulleri</i> in the wild in New Zealand.	554
		Facing plate
14.	(a) A typical nest of <i>R. africanus</i> on the calcrete.	15
	(b) A typical nest of <i>R. africanus</i> on the calcrete among springbok droppings, showing the disruptive effect of both stones and droppings.	15
15.	(a) <i>R. africanus</i> on the nest showing its typical inconspicuous intruder-reaction (plumage flattened against the body and head drawn in) in the presence of a goshawk.	14
	(b) <i>R. africanus</i> shading its egg on a very hot day.	14
		Facing page
16.	(a) Low-intensity threat display in <i>R. africanus</i>	555
	(b) Full threat display.	555
17.	Colonel R. Meinertzhagen.	620
18.	Union Medallists: Salim Ali, P. A. D. Hollom and G. R. Mountfort.	621